

SATELLITE TRANSPONDER ARCHITECTURE WITH  
INTEGRAL REDUNANCY AND BEAM SELECTION CAPABILITIES

ABSTRACT OF THE DISCLOSURE

5 A transponder system that integrates redundancy and beam selection capabilities  
is disclosed. The transponder system comprises an amplifier network having a plurality  
of amplifiers; an antenna network, comprising a plurality of antennae; an output  
switching network, including a first output switching network switch, selectably coupling  
one of the amplifiers to one of the plurality of antennae at a first output switching network  
switch first switch state and to a second output switching network switch in a first output  
switch network switch second switch state, wherein the second output switching network  
switch is selectably coupled to a second one of the plurality of antennae in a second  
output switching network switch first switch state and to a third one of the plurality of  
antennae in a second output switching network switch second switch state.

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